ROHAN JAGTAP

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EDUCATION

B.E. Computer Engineering: Sardar Patel Institute of Technology   **2020, Mumbai, India**
- **CGPA**: 8.73 / 10

PUBLICATIONS

Healthcare Conversational Chatbot for Medical Diagnosis (Book Chapter)   **October 2020**
- A modified Hierarchical Recurrent Encoder-Decoder(HRED) architecture for diagnostic chatbots
- **Webpage**: igi-global.com/book/handbook-research-engineering-business-healthcare/239914

An In-depth Walkthrough on Evolution of Neural Machine Translation   **April 2020**
- An exhaustive study of the past as well as the recent trends in Neural Machine Translation
- **URL**: arxiv.org/abs/2004.04902

WORK EXPERIENCE

VMware, by Broadcom   **Remote-Office, India (Full Time)**
Member of Technical Staff - 2   **August 2022 - Present**
- Development of a Retrieval Augmented Generation (RAG) based chatbot, with a core architecture built around pre-trained Large Language Models (LLMs)
    - Leveraging techniques such as SFT (Supervised Fine-Tuning) and methods like RAFT (Retrieval Augmented Fine-Tuning) to adapt the model to domain-specific knowledge
- Design and development of Azure Marketplace Applications for supporting platform-agnostic cloud products
    - Designed Azure ARM Templates for resource deployment via Azure Marketplace
    - Implemented plug-and-play PowerShell modules for Azure Marketplace as well as AWS AppStream
- Design and development of highly scalable cloud microservices for "App Volumes for Horizon Cloud Next-Gen" that leverage the Microsoft Azure Cloud and Azure IOT Hub Infrastructure
    - Developed a custom framework for managing data flow between cloud microservices and Azure IoT Hub, optimizing communication efficiency and reliability
    - Implemented event streaming using Spring for Apache Kafka
- Provided approximately 100-150 fixes for on-call customer escalations so far

Member of Technical Staff - 1   **July 2020 - August 2022**
- Design and development of highly scalable microservices for "App Volumes for Horizon Cloud on Microsoft Azure"
    - Implemented a novel peer-to-peer caching solution with Spring Gemfire
- Provided approximately 50 fixes for on-call customer escalations

TECHNICAL SKILLS

- **Programming/Scripting Languages:** Java, Python, C/C++, PowerShell, Bash, Ruby, ARM - Bicep
- **AI:** Deep Learning, Natural Language Processing, Machine Learning, Reinforcement Learning
- **Frameworks:** Spring Boot, Azure Resource Manager, Django, Flask, TensorFlow, PyTorch
- **Databases:** PostgreSQL, MongoDB

CERTIFICATIONS

NPTEL: Reinforcement Learning   **October 2019**
- **Score**: 77/100 (Rank #2 in India. Link)
- **Certificate Link**: archive.nptel.ac.in/noc/Ecertificate/?q=NPTEL19CS55S41820719191052649

ACHIEVEMENTS

Winner, EUC India Innovation Week: Shark Tank and Expo Booth - VMware   **September 2023**
- Pitched a prototype for a novel self-healing engine for softwares in Shark Tank
- Presented an upcoming VMware product at the Product Expo Booth

Winner, Technical Paper Presentation Competition - SPIT, Mumbai   **November 2019**
- Departmental Technical Paper Presentation Competition Organized by the Research and Development Department of Sardar Patel Institute of Technology.

Runner Up, Sangam - ML Hackathon By IIT Madras Alumni Association   **August 2019**
- To derive a formula for Air Quality Index (AQI) and predict AQI in temporal as well as spatial dimensions with visualizations.
- **Github**: github.com/rojagtap/sangam2019

Winner, Smart India Hackathon, 2019 Software Edition   **March 2019**
- An Extractive Text Summarizer to make insurance documents more comprehensive for the customers
- **Github**: github.com/rojagtap/voice-over-insurance-protocol